GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 00:48:44 ; Search time 2351.15 Seconds
(without alignments)
175.416 Million cell updates/sec

Title: US-09-851-670-17
Perfect score: 25
Sequence: 1 ctccaacttggaatcacggtacaca 25

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1472140 seqs, 8248589755 residues

Total number of hits satisfying chosen parameters: 586436

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
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5: gb_ov:*
6: gb_pat:*
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32: em_htgo_rod:*
33: em_htg_hum:*
34: em_htg_inv:*
35: em_htg_rod:*
36: em_htg_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.		Score	Query Match	Length	DB	ID	Description
1		16	64.0	51	6	AX165611	AX165611 Sequence
2	c	14.6	58.4	25	6	AX181011	AX181011 Sequence
3		14.4	57.6	39	6	AR112771	AR112771 Sequence
4	c	14.2	56.8	42	6	I55968	I55968 Sequence 13
5		14	56.0	50	6	A23359	A23359 Artificial
6		14	56.0	50	6	AR068537	AR068537 Sequence
7	c	13.8	55.2	56	6	A23358	A23358 Artificial
8	c	13.8	55.2	56	6	AR068536	AR068536 Sequence
9	c	13.6	54.4	57	12	SYNECOPIA	M12688 E.coli beta
10	c	13.4	53.6	40	6	A23357	A23357 Artificial
11	c	13.4	53.6	40	6	AR068535	AR068535 Sequence
12		13.4	53.6	50	6	A23365	A23365 Artificial
13		13.4	53.6	50	6	AR068543	AR068543 Sequence
14	c	13.4	53.6	51	6	A23366	A23366 Artificial
15	c	13.4	53.6	51	6	AR068544	AR068544 Sequence
16	c	13.4	53.6	52	6	A23363	A23363 Artificial
17	c	13.4	53.6	52	6	AR068541	AR068541 Sequence
18	c	13.4	53.6	53	6	A23361	A23361 Artificial
19	c	13.4	53.6	53	6	AR068539	AR068539 Sequence
20		13.4	53.6	56	6	A23356	A23356 Artificial
21		13.4	53.6	56	6	AR068534	AR068534 Sequence
22	c	13.4	53.6	57	6	A23354	A23354 Artificial
23	c	13.4	53.6	57	6	AR068532	AR068532 Sequence
24		13.4	53.6	60	6	A23362	A23362 Artificial
25		13.2	52.8	24	11	DOGTCRAB	L77455 Canis famil
26	c	13.2	52.8	38	6	AX157500	AX157500 Sequence
27		13.2	52.8	51	6	AX159628	AX159628 Sequence
28		13	52.0	30	6	AR018208	AR018208 Sequence
29		13	52.0	30	6	I24473	I24473 Sequence 17
30		13	52.0	30	6	I63458	I63458 Sequence 24
31		13	52.0	57	9	HSA403945	AJ403945 Homo sapi
32		12.8	51.2	22	4	DOGP42902	L24313 Dog (Clone:
33		12.8	51.2	30	6	I50740	I50740 Sequence 22
34	c	12.8	51.2	57	6	AX068067	AX068067 Sequence
35		12.8	51.2	60	1	SSU73409	U73409 Saccharomon
36	c	12.6	50.4	35	6	A23360	A23360 Artificial
37		12.6	50.4	35	6	A61914	A61914 Sequence 2
38	c	12.6	50.4	35	6	AR068538	AR068538 Sequence
39	c	12.6	50.4	37	6	AR078178	AR078178 Sequence
40	c	12.4	49.6	21	6	I80895	I80895 Sequence 12
41		12.4	49.6	23	6	A39840	A39840 Sequence 13
42		12.4	49.6	23	6	AR044021	AR044021 Sequence
43		12.4	49.6	25	6	AR102753	AR102753 Sequence
44		12.4	49.6	30	6	I72721	I72721 Sequence 95
45	c	12.4	49.6	35	6	AR044540	AR044540 Sequence

ALIGNMENTS

RESULT 1
AX165611
LOCUS AX165611 51 bp DNA PAT 22-JUN-2001
DEFINITION Sequence 806 from Patent WO0138586.
ACCESSION AX165611
VERSION AX165611.1 GI:14546440
KEYWORDS .
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0138586-A 806 31-MAY-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
source 1. .51
/organism="Homo sapiens"

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                     /db_xref="taxon:9606"
     variation       26
                     /note="single nucleotide polymorphism
                     Accession number cg43275625"
BASE COUNT        6 a      12 c      16 g      17 t
ORIGIN
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  Query Match             64.0%;  Score 16;  DB 6;  Length 51;
  Best Local Similarity   79.2%;  Pred. No. 1.2e+03;
  Matches   19;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy       1 ctccaacttggaatcacggtacac 24
           | ||| |||||  ||| ||||||||
Db      15 CGCCAGCTTGGGCTCATGGTACAC 38
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RESULT   2
AX181011/c
LOCUS       AX181011        25 bp    DNA             PAT       06-AUG-2001
DEFINITION  Sequence 62 from Patent WO0145493.
ACCESSION   AX181011
VERSION     AX181011.1  GI:15132794
KEYWORDS    .
SOURCE      synthetic construct.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 25)
  AUTHORS   costa e Silva,O.D., van Thielen,N. and Chen,R.
  TITLE     Transcription factor stress-related proteins and methods of use in
            plants
  JOURNAL   Patent: WO 0145493-A 62 28-JUN-2001;
            BASF Plant Science GmbH (DE)
FEATURES             Location/Qualifiers
     source          1. .25
                     /organism="synthetic construct"
                     /db_xref="taxon:32630"
                     /note="Primer"
BASE COUNT        6 a      3 c      11 g      5 t
ORIGIN
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  Query Match             58.4%;  Score 14.6;  DB 6;  Length 25;
  Best Local Similarity   81.0%;  Pred. No. 7.1e+03;
  Matches   17;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy       3 ccaacttggaatcacggtaca 23
           ||||||| | ||||| || ||
Db      25 CCAACTTCGCATCACCGTCCA 5
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```
RESULT   3
AR112771
LOCUS       AR112771        39 bp    DNA             PAT       16-MAY-2001
DEFINITION  Sequence 32 from patent US 6130316.
ACCESSION   AR112771
VERSION     AR112771.1  GI:14092671
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 39)
  AUTHORS   Freeman,G.J., Nadler,L.M., Gray,G.S. and Greenfield,E.
  TITLE     Fusion proteins of novel CTLA4/CD28 ligands and uses therefore
  JOURNAL   Patent: US 6130316-A 32 10-OCT-2000;
FEATURES             Location/Qualifiers
     source          1. .39
                     /organism="unknown"
BASE COUNT        8 a      12 c      8 g      11 t
ORIGIN
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  Query Match             57.6%;  Score 14.4;  DB 6;  Length 39;
  Best Local Similarity   75.0%;  Pred. No. 9e+03;
  Matches   18;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy       1 ctccaacttggaatcacggtacac 24
           ||||| ||||  ||||| || | |
Db      11 CTCCAGCTTGAGATCACAGTTCTC 34
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RESULT   4
I55968/c
LOCUS       I55968          42 bp    DNA             PAT       07-OCT-1997
DEFINITION  Sequence 13 from patent US 5648245.
ACCESSION   I55968
VERSION     I55968.1  GI:2476762
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 42)
  AUTHORS   Fire,A. and Xu,S.
  TITLE     Method for constructing an oligonucleotide concatamer library by
            rolling circle replication
  JOURNAL   Patent: US 5648245-A 13 15-JUL-1997;
FEATURES             Location/Qualifiers
     source          1. .42
                     /organism="unknown"
BASE COUNT       11 a      10 c      9 g      12 t
ORIGIN
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  Query Match             56.8%;  Score 14.2;  DB 6;  Length 42;
  Best Local Similarity   84.2%;  Pred. No. 1.2e+04;
  Matches   16;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy       1 ctccaacttggaatcacgg 19
           ||| |||||||||  ||||
Db      24 CTCAAACTTGGAACTACGG 6
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RESULT   5
A23359
LOCUS       A23359          50 bp    DNA             PAT       20-JUN-1996
DEFINITION  Artificial DNA for oligonucleotide (id. 23).
ACCESSION   A23359
VERSION     A23359.1  GI:1566798
KEYWORDS    .
SOURCE      synthetic construct.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 50)
  AUTHORS   .
  TITLE     PROCESS FOR SCREENING SUBSTANCES CAPABLE OF MODULATING A
            RECEPTOR-DEPENDENT CELLULAR SIGNAL TRANSMISSION PATH
  JOURNAL   Patent: WO 9311257-A 23 10-JUN-1993;
FEATURES             Location/Qualifiers
     source          1. .50
                     /organism="synthetic construct"
                     /db_xref="taxon:32630"
BASE COUNT       15 a      14 c      8 g      13 t
ORIGIN
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  Query Match             56.0%;  Score 14;  DB 6;  Length 50;
  Best Local Similarity   77.3%;  Pred. No. 1.5e+04;
  Matches   17;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy       4 caacttggaatcacggtacaca 25
           | || | ||||||||||  |||
Db       2 CGACCTTGAATCACGGTCTACA 23
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```
RESULT   6
AR068537
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LOCUS       AR068537       50 bp    DNA             PAT       29-SEP-1999
DEFINITION  Sequence 23 from patent US 5854004.
ACCESSION   AR068537
VERSION     AR068537.1  GI:6000744
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 50)
  AUTHORS   Czernilofsky,A.Peter, Himmler,A., Stratowa,C., Weyer,U., Lamche,H.
            and Schafer,R.
  TITLE     Process for screening substances capable of modulating a
            receptor-dependent cellular signal transmission path
  JOURNAL   Patent: US 5854004-A 23 29-DEC-1998;
FEATURES             Location/Qualifiers
     source          1. .50
                     /organism="unknown"
BASE COUNT       15 a      14 c       8 g      13 t
ORIGIN


  Query Match             56.0%;  Score 14;  DB 6;  Length 50;
  Best Local Similarity   77.3%;  Pred. No. 1.5e+04;
  Matches   17;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy       4 caacttggaatcacggtacaca 25
           | || | ||||||||||  |||
Db       2 CGACCTTGAATCACGGTCTACA 23


RESULT   7
A23358/c
LOCUS       A23358         56 bp    DNA             PAT       20-JUN-1996
DEFINITION  Artificial DNA for oligonucleotide (id. 22).
ACCESSION   A23358
VERSION     A23358.1  GI:1566797
KEYWORDS    .
SOURCE      synthetic construct.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 56)
  AUTHORS   .
  TITLE     PROCESS FOR SCREENING SUBSTANCES CAPABLE OF MODULATING A
            RECEPTOR-DEPENDENT CELLULAR SIGNAL TRANSMISSION PATH
  JOURNAL   Patent: WO 9311257-A 22 10-JUN-1993;
FEATURES             Location/Qualifiers
     source          1. .56
                     /organism="synthetic construct"
                     /db_xref="taxon:32630"
BASE COUNT       14 a      13 c       16 g     13 t
ORIGIN


  Query Match             55.2%;  Score 13.8;  DB 6;  Length 56;
  Best Local Similarity   72.0%;  Pred. No. 1.9e+04;
  Matches   18;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy       1 ctccaacttggaatcacggtacaca 25
           | | ||  | ||||||||||  |||
Db      51 CACTAAGCTTGAATCACGGTCTACA 27


RESULT   8
AR068536/c
LOCUS       AR068536       56 bp    DNA             PAT       29-SEP-1999
DEFINITION  Sequence 22 from patent US 5854004.
ACCESSION   AR068536
VERSION     AR068536.1  GI:6000743
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 56)
  AUTHORS   Czernilofsky,A.Peter, Himmler,A., Stratowa,C., Weyer,U., Lamche,H.
            and Schafer,R.
  TITLE     Process for screening substances capable of modulating a
            receptor-dependent cellular signal transmission path
  JOURNAL   Patent: US 5854004-A 22 29-DEC-1998;
FEATURES             Location/Qualifiers
     source          1. .56
                     /organism="unknown"
BASE COUNT       14 a      13 c       16 g     13 t
ORIGIN


  Query Match             55.2%;  Score 13.8;  DB 6;  Length 56;
  Best Local Similarity   72.0%;  Pred. No. 1.9e+04;
  Matches   18;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy       1 ctccaacttggaatcacggtacaca 25
           | | ||  | ||||||||||  |||
Db      51 CACTAAGCTTGAATCACGGTCTACA 27


RESULT   9
SYNECOPIA/c
LOCUS       SYNECOPIA      57 bp    DNA             SYN       27-APR-1993
DEFINITION  E.coli beta-galactosidase/human proinsulin fusion gene, 5' end.
ACCESSION   M12688
VERSION     M12688.1  GI:208306
KEYWORDS    .
SOURCE      Human/Escherichia coli DNA.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 57)
  AUTHORS   Sung,W.L., Yao,F.-L., Zahab,D.M. and Narang,S.A.
  TITLE     Short synthetic oligodeoxyribonucleotide leader sequences enhance
            accumulation of human proinsulin synthesized in escherichia coli
  JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 83, 561-565 (1986)
  MEDLINE   86120980
FEATURES             Location/Qualifiers
     source          1. .57
                     /organism="synthetic construct"
                     /db_xref="taxon:32630"
     CDS             1. .>57
                     /note="B-(Gal)-oligonucleotide-proinsulin fusion protein"
                     /codon_start=1
                     /transl_table=11
                     /protein_id="AAA72523.1"
                     /db_xref="GI:208307"
                     /translation="MTMITNWSSSSSSKFRMFV"
BASE COUNT       17 a      12 c       15 g     13 t
ORIGIN


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  Best Local Similarity   80.0%;  Pred. No. 2.4e+04;
  Matches   16;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy       1 ctccaacttggaatcacggt 20
           |||||| | | ||||| |||
Db      23 CTCCAATTCGTAATCATGGT 4


RESULT   10
A23357/c
LOCUS       A23357         40 bp    DNA             PAT       20-JUN-1996
DEFINITION  Artificial DNA for oligonucleotide (id. 21).
ACCESSION   A23357
VERSION     A23357.1  GI:1566796
KEYWORDS    .
SOURCE      synthetic construct.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 40)
  AUTHORS   .
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  TITLE     PROCESS FOR SCREENING SUBSTANCES CAPABLE OF MODULATING A
            RECEPTOR-DEPENDENT CELLULAR SIGNAL TRANSMISSION PATH
  JOURNAL   Patent: WO 9311257-A 21 10-JUN-1993;
FEATURES             Location/Qualifiers
     source          1. .40
                     /organism="synthetic construct"
                     /db_xref="taxon:32630"
BASE COUNT       10 a      8 c     10 g     12 t
ORIGIN
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  Best Local Similarity   73.9%;  Pred. No. 3.1e+04;
  Matches   17;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      3 ccaacttggaatcacggtacaca 25
          | ||  | ||||||||||  |||
Db     40 CTAAGCTTGAATCACGGTCTACA 18
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RESULT  11
AR068535/c
LOCUS       AR068535       40 bp    DNA             PAT       29-SEP-1999
DEFINITION  Sequence 21 from patent US 5854004.
ACCESSION   AR068535
VERSION     AR068535.1  GI:6000742
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 40)
  AUTHORS   Czernilofsky,A.Peter, Himmler,A., Stratowa,C., Weyer,U., Lamche,H.
            and Schafer,R.
  TITLE     Process for screening substances capable of modulating a
            receptor-dependent cellular signal transmission path
  JOURNAL   Patent: US 5854004-A 21 29-DEC-1998;
FEATURES             Location/Qualifiers
     source          1. .40
                     /organism="unknown"
BASE COUNT       10 a      8 c     10 g     12 t
ORIGIN
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  Query Match             53.6%;  Score 13.4;  DB 6;  Length 40;
  Best Local Similarity   73.9%;  Pred. No. 3.1e+04;
  Matches   17;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      3 ccaacttggaatcacggtacaca 25
          | ||  | ||||||||||  |||
Db     40 CTAAGCTTGAATCACGGTCTACA 18
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```
RESULT  12
A23365
LOCUS       A23365         50 bp    DNA             PAT       20-JUN-1996
DEFINITION  Artificial DNA for oligonucleotide (id. 29).
ACCESSION   A23365
VERSION     A23365.1  GI:1566804
KEYWORDS    .
SOURCE      synthetic construct.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 50)
  AUTHORS   .
  TITLE     PROCESS FOR SCREENING SUBSTANCES CAPABLE OF MODULATING A
            RECEPTOR-DEPENDENT CELLULAR SIGNAL TRANSMISSION PATH
  JOURNAL   Patent: WO 9311257-A 29 10-JUN-1993;
FEATURES             Location/Qualifiers
     source          1. .50
                     /organism="synthetic construct"
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BASE COUNT       12 a      14 c     12 g     12 t
ORIGIN
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  Best Local Similarity   73.9%;  Pred. No. 3.1e+04;
  Matches   17;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      3 ccaacttggaatcacggtacaca 25
          | ||  | ||||||||||  |||
Db      6 CTAAGCTTGAATCACGGTCTACA 28
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RESULT  13
AR068543
LOCUS       AR068543       50 bp    DNA             PAT       29-SEP-1999
DEFINITION  Sequence 29 from patent US 5854004.
ACCESSION   AR068543
VERSION     AR068543.1  GI:6000750
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 50)
  AUTHORS   Czernilofsky,A.Peter, Himmler,A., Stratowa,C., Weyer,U., Lamche,H.
            and Schafer,R.
  TITLE     Process for screening substances capable of modulating a
            receptor-dependent cellular signal transmission path
  JOURNAL   Patent: US 5854004-A 29 29-DEC-1998;
FEATURES             Location/Qualifiers
     source          1. .50
                     /organism="unknown"
BASE COUNT       12 a      14 c     12 g     12 t
ORIGIN
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  Query Match             53.6%;  Score 13.4;  DB 6;  Length 50;
  Best Local Similarity   73.9%;  Pred. No. 3.1e+04;
  Matches   17;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      3 ccaacttggaatcacggtacaca 25
          | ||  | ||||||||||  |||
Db      6 CTAAGCTTGAATCACGGTCTACA 28
```

```
RESULT  14
A23366/c
LOCUS       A23366         51 bp    DNA             PAT       20-JUN-1996
DEFINITION  Artificial DNA for oligonucleotide (id. 30).
ACCESSION   A23366
VERSION     A23366.1  GI:1566805
KEYWORDS    .
SOURCE      synthetic construct.
  ORGANISM  synthetic construct
            artificial sequence.
REFERENCE   1  (bases 1 to 51)
  AUTHORS   .
  TITLE     PROCESS FOR SCREENING SUBSTANCES CAPABLE OF MODULATING A
            RECEPTOR-DEPENDENT CELLULAR SIGNAL TRANSMISSION PATH
  JOURNAL   Patent: WO 9311257-A 30 10-JUN-1993;
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BASE COUNT       10 a      12 c     15 g     14 t
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  Matches   17;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      3 ccaacttggaatcacggtacaca 25
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Db     47 CTAAGCTTGAATCACGGTCTACA 25
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RESULT  15
AR068544/c
LOCUS       AR068544       51 bp    DNA             PAT       29-SEP-1999
DEFINITION  Sequence 30 from patent US 5854004.
ACCESSION   AR068544
VERSION     AR068544.1  GI:6000751
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 51)
  AUTHORS   Czernilofsky,A.Peter, Himmler,A., Stratowa,C., Weyer,U., Lamche,H.
            and Schafer,R.
  TITLE     Process for screening substances capable of modulating a
            receptor-dependent cellular signal transmission path
  JOURNAL   Patent: US 5854004-A 30 29-DEC-1998;
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BASE COUNT       10 a     12 c     15 g     14 t
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  Query Match             53.6%;  Score 13.4;  DB 6;  Length 51;
  Best Local Similarity   73.9%;  Pred. No. 3.1e+04;
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Qy       3 ccaacttggaatcacggtacaca 25
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Search completed: March  9, 2002, 00:48:45
Job time: 11126 sec
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